## REMARKS

Claims 1-9 are in this application.

The examiner maintains that claims 1-9 are anticipated by U.S. Patent 5,958,780. This is respectfully traversed.

According to page 7, lines 17-21 of the specification "Original concentrations of markers are selected at random using the generated for this purpose random numbers. The marking code formed after marking, which contains data about the markers used for marking, is encrypted and upon identifying of the marked liquid this encryption code is used as a key to set-up of measuring and analyses procedures performed by marker reader (MR)". As explained to the examiner during the interview conducted on December 9, 2009, the numbers used as the marking code are random.

The marking, encrypting and decrypting process described and claimed in the application is performed as follows:

The set of markers is defined for further marking. Such set can consist of N different markers with serial number n ranging from 1 to N. This is so that it is possible to detect each marker in presence of other markers. This is disclosed on page 4, lines 17-27. This is a BASIC SET used for marking.

Next, for each marker a minimal portion (unit dose) to be introduced is defined. The minimal portion shall be such that this marker must be detectable in presence of other markers even if the minimal portion has been introduced and irrespective of the amount of the other markers introduced (even if the maximal amount of other markers has been introduced).

The number of possible portions m for each marker is to be determined. Thus, the number of portions m which is determined for a marker used for marking ranges from 1 to M. This is described on page 4, line 27 and page 7, line 32-page 8, line 4. While marking the liquid, every marker is introduced into the liquid preferably by multiples of this minimal portion.

For example, a BASIC set consists of 10 markers (N=10), 3 markers are used in marking procedure, and every marker can be added to the liquid in amount of portions ranging from 1 to 6. (The same can be done with 2 markers and 1 to 10 portions, or 4 markers and 1 to 5 portions etc. That means that any combination is useable).

To start marking, the software generates 3 random serial numbers  $n_1$ ,  $n_2$ ,  $n_3$ . from the set 1 to N. It selects the serial numbers of markers, which will be added to the liquid, from BASIC set of 10 markers, Another set of random numbers  $m_1$ ,  $m_2$ ,  $m_3$  from the range of 1 to M is generated to manage the Marking Station (MS) for addition of  $m_1$ ,  $m_2$ ,  $m_3$  portions of markers  $n_1$ ,  $n_2$ ,  $n_3$  to the liquid (this has been disclosed on page 7, line 32-page 8, line 4 and in the Example. The markers and the concentration of the markers are selected in a random way from pre-defined set (this has been disclosed on page 7, linese 17-21). After introducing the markers into the liquid (after marking the liquid) the corresponding concentrations of markers  $c_1$ ,  $c_2$ ,  $c_3$  and their ratios  $i_1 = c_1/c_2$ ;  $i_2 = c_2/c_3$ ; and  $i_3 = c_1/c_3$  are detected by Marker Reader from the marked liquid.

As the selection of markers and their concentrations is done in a random way, the concentrations of markers and their ratios are also not pre-defined. A fixed combination of numbers  $< n_1, n_2, n_3; m_1, m_2, m_3; c_b, c_b, c_b; i_b, i_b, i_b>$ , obtained after the marking and concentrations' and ratios' detecting process, serves as a marking code. The code is random by its nature and further encrypted to protect the information from disclosure.

 detected values correspond to the original code (disclosed on page 8, lines 22-25). The only information the authorized customer will receive from the Marker Reader is:

Authentication YES or NO. NO means that the liquid is not the same as the original liquid.

In the way of marking according to this invention there is no set reference table or look-up table as described in Asher et al. used for verification, the information in the code is all-sufficient to identify the marked liquid. The computer program installed in the Marker Reader does not include any predetermined values of n, m, c and i either. For the authentication purpose the user receives only the encrypted code, and there is no other information available for him and needed for the identification of the liquid.

Asher does not disclose the use of an encryption code and the examiner's attention is drawn to page 10 of the specification. According to column 3, lines 8-16 of Asher

The markers are mixed in the liquid so that the ratio of the concentration of the first marker to the concentration of the second marker is substantially equal to a predetermined value. Thus, when a system according to the invention measures the concentrations of the first and second markers, the system can compare the ratio of the measured concentration of the first marker to the measured concentration of the second marker with a look up table of predetermined values to provide information concerning the identity of the liquid.

Asher discloses that the concentrations of the markers are fixed so as to match a value that is present in a preexisting look up table with predetermined values. Unlike Asher, in this invention there is no fixed preexisting look up table and the marking code of the invention is characteristic only to this liquid volume. As Asher does not disclose all of the elements of claims 1-9 it cannot and does not anticipate these claims.

It is respectfully requested that this rejection be withdrawn.

It is submitted that the application is in condition for allowance and favorable consideration is respectfully requested.

Respectfully submitted,

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